



OIEP

RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/041,006

DATE: 01/30/2002

TIME: 15:13:13

Input Set : A:\Sequence Listing.txt

Output Set: N:\CRF3\01302002\J041006.raw

ENTERED

 RECEIVED
 MAR 04 2002
 TECH CENTER 1600/2900

3 <110> APPLICANT: Andrade-Gordon, Patricia
 4 Darrow, Andrew
 5 Qi, Jian-shen
 7 <120> TITLE OF INVENTION: DNA encoding the novel human serine
 8 protease T
 10 <130> FILE REFERENCE: ORT-1032
 C--> 12 <140> CURRENT APPLICATION NUMBER: US/10/041,006
 C--> 13 <141> CURRENT FILING DATE: 2002-01-07
 15 <160> NUMBER OF SEQ ID NOS: 11
 17 <170> SOFTWARE: PatentIn Ver. 2.0
 19 <210> SEQ ID NO: 1
 20 <211> LENGTH: 1110
 21 <212> TYPE: DNA
 22 <213> ORGANISM: Homo sapiens
 24 <400> SEQUENCE: 1
 25 gaccacggcc ctgcgcccc gccaggcctg aggacatgag gcggccggcg gcggtgccgc 60
 26 tcctgctgct gctgtgtttt gggctctcaga gggccaaggc agcaacagcc tgttggtgcc 120
 27 ccaggatgct gaaccgaatg gtgggcgggc aggacacgca ggagggcgag tggccctggc 180
 28 aagtacgcat ccagcgcaac ggaagccact tctgcggggg cagcctcatc gcggagcagt 240
 29 gggtcctgac ggctgcgcac tgcttccgca acacctctga gacgtccctg taccaggtcc 300
 30 tgctgggggc aaggcagcta gtgcagccgg gaccacacgc tatgtatgcc cgggtgaggc 360
 31 aggtggagag caacccctctg taccagggca cggcctccag cgtgacgtg gccctgggtg 420
 32 agctggaggc accagtgcct ttcaccaatt acatcctccc cgtgtgctg cctgaccctc 480
 33 cggtgatctt tgagcagggc atgaactgct gggctcactgg ctggggcagc cccagtgagg 540
 34 aagacctcct gcccgaaacg cggatcctgc agaaactcgc tgtgcccac atcgacacac 600
 35 ccaagtgcaa cctgctctac agcaaagaca ccgagtttgg ctaccaaccc aaaaccatca 660
 36 agaattgacat gctgtgcgcc ggcttcgagg agggcaagaa ggatgcctgc aagggcgact 720
 37 cgggcggccc cctgggtgtg ctcgtgggtc agtcgtggct gcaggcgggg gtgatcagct 780
 38 ggggtgaggg ctgtgcccgc cagaaccgcc cagggtgtcta catcctgtgc accgcccacc 840
 39 acaactggat ccacggatc atcccaaac tgcagttcca gccagcgagg ttgggcggcc 900
 40 agaagtgaga ccccggggc caggagcccc ttgagcagag ctctgcaccc agcctgcccg 960
 41 cccacaccat cctgctggtc ctcccagcgc tgcgtgttga cctgtgagcc ccaccagact 1020
 42 catttgtaaa tagcgctcct tctcccctc tcaaataccc ttattttatt tatgtttctc 1080
 43 ccaataaaaa ccagcctgtg gtgccagctg 1110
 45 <210> SEQ ID NO: 2
 46 <211> LENGTH: 20
 47 <212> TYPE: DNA
 48 <213> ORGANISM: Artificial Sequence
 50 <220> FEATURE:
 51 <223> OTHER INFORMATION: Description of Artificial Sequence: PCR primer
 53 <400> SEQUENCE: 2
 54 gccaggcctg aggacatgag
 56 <210> SEQ ID NO: 3

20

RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/041,006

DATE: 01/30/2002

TIME: 15:13:13

Input Set : A:\Sequence Listing.txt

Output Set: N:\CRF3\01302002\J041006.raw

RECEIVED
MAR 04 2002
TECHNICAL CENTER 1600/2900

```

57 <211> LENGTH: 20
58 <212> TYPE: DNA
59 <213> ORGANISM: Artificial Sequence
61 <220> FEATURE:
62 <223> OTHER INFORMATION: Description of Artificial Sequence: PCR primer
64 <400> SEQUENCE: 3
65 tgcgctggat gctgacttgc                                20
67 <210> SEQ ID NO: 4
68 <211> LENGTH: 40
69 <212> TYPE: DNA
70 <213> ORGANISM: Artificial Sequence
72 <220> FEATURE:
73 <223> OTHER INFORMATION: Description of Artificial Sequence: Nested probe
75 <400> SEQUENCE: 4
76 ccaggatgct gaaccgaatg gtgggcgggc aggacacgca          40
78 <210> SEQ ID NO: 5
79 <211> LENGTH: 30
80 <212> TYPE: DNA
81 <213> ORGANISM: Artificial Sequence
83 <220> FEATURE:
84 <223> OTHER INFORMATION: Description of Artificial Sequence: PCR primer
86 <400> SEQUENCE: 5
87 aggatctaga ggagggcgag tggccctggc                    30
89 <210> SEQ ID NO: 6
90 <211> LENGTH: 30
91 <212> TYPE: DNA
92 <213> ORGANISM: Artificial Sequence
94 <220> FEATURE:
95 <223> OTHER INFORMATION: Description of Artificial Sequence: PCR primer
97 <400> SEQUENCE: 6
98 ggggtctaga cttctggccg cccaacctcg                    30
100 <210> SEQ ID NO: 7
101 <211> LENGTH: 290
102 <212> TYPE: PRT
103 <213> ORGANISM: Homo sapiens
105 <400> SEQUENCE: 7
106 Met Arg Arg Pro Ala Ala Val Pro Leu Leu Leu Leu Cys Phe Gly
107   1           5           10           15
109 Ser Gln Arg Ala Lys Ala Ala Thr Ala Cys Gly Arg Pro Arg Met Leu
110           20           25           30
112 Asn Arg Met Val Gly Gly Gln Asp Thr Gln Glu Gly Glu Trp Pro Trp
113           35           40           45
115 Gln Val Ser Ile Gln Arg Asn Gly Ser His Phe Cys Gly Gly Ser Leu
116           50           55           60
118 Ile Ala Glu Gln Trp Val Leu Thr Ala Ala His Cys Phe Arg Asn Thr
119           65           70           75           80
121 Ser Glu Thr Ser Leu Tyr Gln Val Leu Leu Gly Ala Arg Gln Leu Val
122           85           90           95
124 Gln Pro Gly Pro His Ala Met Tyr Ala Arg Val Arg Gln Val Glu Ser

```

RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/041,006

DATE: 01/30/2002

TIME: 15:13:13

Input Set : A:\Sequence Listing.txt

Output Set: N:\CRF3\01302002\J041006.raw

```

125          100          105          110
127 Asn Pro Leu Tyr Gln Gly Thr Ala Ser Ser Ala Asp Val Ala Leu Val
128          115          120          125
130 Glu Leu Glu Ala Pro Val Pro Phe Thr Asn Tyr Ile Leu Pro Val Cys
131          130          135          140
133 Leu Pro Asp Pro Ser Val Ile Phe Glu Thr Gly Met Asn Cys Trp Val
134 145          150          155          160
136 Thr Gly Trp Gly Ser Pro Ser Glu Glu Asp Leu Leu Pro Glu Pro Arg
137          165          170          175
139 Ile Leu Gln Lys Leu Ala Val Pro Ile Ile Asp Thr Pro Lys Cys Asn
140          180          185          190
142 Leu Leu Tyr Ser Lys Asp Thr Glu Phe Gly Tyr Gln Pro Lys Thr Ile
143          195          200          205
145 Lys Asn Asp Met Leu Cys Ala Gly Phe Glu Glu Gly Lys Lys Asp Ala
146          210          215          220
148 Cys Lys Gly Asp Ser Gly Gly Pro Leu Val Cys Leu Val Gly Gln Ser
149 225          230          235          240
151 Trp Leu Gln Ala Gly Val Ile Ser Trp Gly Glu Gly Cys Ala Arg Gln
152          245          250          255
154 Asn Arg Pro Gly Val Tyr Ile Arg Val Thr Ala His His Asn Trp Ile
155          260          265          270
157 His Arg Ile Ile Pro Lys Leu Gln Phe Gln Pro Ala Arg Leu Gly Gly
158          275          280          285
160 Gln Lys
161          290
164 <210> SEQ ID NO: 8
165 <211> LENGTH: 1130
166 <212> TYPE: DNA
167 <213> ORGANISM: Artificial Sequence
169 <220> FEATURE:
170 <223> OTHER INFORMATION: Description of Artificial Sequence: Fusion gene of
171 Protease T in a zymogen activation vector
173 <400> SEQUENCE: 8
174 gaattcacca ccattggacag caaagggttcg tcgcagaaat cccgcctgct cctgctgctg 60
175 gtggtgtcaa atctactctt gtgccagggt gtggtctccg actacaagga cgacgacgac 120
176 gtggacgcgg ccgctcttgc tgcccccttt gatgatgatg acaagatcgt tgggggctat 180
177 gctctagagg agggcgagtg gccctggcaa gtcagcatcc agcgcaacgg aagccacttc 240
178 tgcgggggca gcctcatcgc ggagcagtggt gtccctgacgg ctgcgcactg cttccgcaac 300
179 acctctgaga cgtccctgta ccaggctcctg ctggggggcaa ggcagctagt gcagccggga 360
180 ccacacgcta tgtatgcccg ggtgaggcag gtggagagca acccctgta ccagggcacg 420
181 gcctccagcg ctgacgtggc cctggtggag ctggaggcac cagtgcctt caccaattac 480
182 atcctccccg tgtgcctgcc tgaccctcctg gtgatctttg agacgggcat gaactgctgg 540
183 gtcactggct ggggcagccc cagtgaggaa gacctcctgc ccgaaccgcg gatcctgcag 600
184 aaactcgctg tgcccatcat cgacacaccc aagtgaaccc tgctctacag caaagacacc 660
185 gagtttggtg accaacccaa aaccatcaag aatgacatgc tgtgcgccgg cttcgaggag 720
186 ggcaagaagg atgcctgcaa gggcgactcg ggcggccccc tgggtgtgct cgtgggtcag 780
187 tcgtggctgc aggcgggggt gatcagctgg ggtgagggtg gtgcccgcca gaaccgcccc 840
188 ggtgtctaca tccgtgtcac cgcccaccac aactggatcc atcgatcat ccccaaactg 900
189 cagttccagc cagcgagggtt gggcgggccag aagtctagac atcaccatca ccatcactag 960

```

RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/041,006

DATE: 01/30/2002

TIME: 15:13:13

Input Set : A:\Sequence Listing.txt

Output Set: N:\CRF3\01302002\J041006.raw

```

190 cggccgcttc cctttagtga gggttaatgc ttcgagcaga catgataaga tacattgatg 1020
191 agtttggaaca aaccacaact agaatgcagt gaaaaaaatg ctttatttgt gaaatttggtg 1080
192 atgctattgc tttatttgta accattataa gctgcaataa acaagttgac 1130
194 <210> SEQ ID NO: 9
195 <211> LENGTH: 315
196 <212> TYPE: PRT
197 <213> ORGANISM: Artificial Sequence
199 <220> FEATURE:
200 <223> OTHER INFORMATION: Description of Artificial Sequence: Fusion Protein
201 of Protease T in a zymogen activation construct
203 <400> SEQUENCE: 9
204 Met Asp Ser Lys Gly Ser Ser Gln Lys Ser Arg Leu Leu Leu Leu Leu
205 1 5 10 15
207 Val Val Ser Asn Leu Leu Leu Cys Gln Gly Val Val Ser Asp Tyr Lys
208 20 25 30
210 Asp Asp Asp Asp Val Asp Ala Ala Ala Leu Ala Ala Pro Phe Asp Asp
211 35 40 45
213 Asp Asp Lys Ile Val Gly Gly Tyr Ala Leu Glu Glu Gly Glu Trp Pro
214 50 55 60
216 Trp Gln Val Ser Ile Gln Arg Asn Gly Ser His Phe Cys Gly Gly Ser
217 65 70 75 80
219 Leu Ile Ala Glu Gln Trp Val Leu Thr Ala Ala His Cys Phe Arg Asn
220 85 90 95
222 Thr Ser Glu Thr Ser Leu Tyr Gln Val Leu Leu Gly Ala Arg Gln Leu
223 100 105 110
225 Val Gln Pro Gly Pro His Ala Met Tyr Ala Arg Val Arg Gln Val Glu
226 115 120 125
228 Ser Asn Pro Leu Tyr Gln Gly Thr Ala Ser Ser Ala Asp Val Ala Leu
229 130 135 140
231 Val Glu Leu Glu Ala Pro Val Pro Phe Thr Asn Tyr Ile Leu Pro Val
232 145 150 155 160
234 Cys Leu Pro Asp Pro Ser Val Ile Phe Glu Thr Gly Met Asn Cys Trp
235 165 170 175
237 Val Thr Gly Trp Gly Ser Pro Ser Glu Glu Asp Leu Leu Pro Glu Pro
238 180 185 190
240 Arg Ile Leu Gln Lys Leu Ala Val Pro Ile Ile Asp Thr Pro Lys Cys
241 195 200 205
243 Asn Leu Leu Tyr Ser Lys Asp Thr Glu Phe Gly Tyr Gln Pro Lys Thr
244 210 215 220
246 Ile Lys Asn Asp Met Leu Cys Ala Gly Phe Glu Glu Gly Lys Lys Asp
247 225 230 235 240
249 Ala Cys Lys Gly Asp Ser Gly Gly Pro Leu Val Cys Leu Val Gly Gln
250 245 250 255
252 Ser Trp Leu Gln Ala Gly Val Ile Ser Trp Gly Glu Gly Cys Ala Arg
253 260 265 270
255 Gln Asn Arg Pro Gly Val Tyr Ile Arg Val Thr Ala His His Asn Trp
256 275 280 285
258 Ile His Arg Ile Ile Pro Lys Leu Gln Phe Gln Pro Ala Arg Leu Gly
259 290 295 300

```

RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/041,006

DATE: 01/30/2002

TIME: 15:13:13

Input Set : A:\Sequence Listing.txt

Output Set: N:\CRF3\01302002\J041006.raw

261 Gly Gln Lys Ser Arg His His His His His His
262 305 310 315
264 <210> SEQ ID NO: 10
265 <211> LENGTH: 4
266 <212> TYPE: PRT
267 <213> ORGANISM: Artificial Sequence
269 <220> FEATURE:
270 <223> OTHER INFORMATION: Description of Artificial Sequence: peptide substrate
272 <400> SEQUENCE: 10
273 Ala Ala Pro Phe
275 <210> SEQ ID NO: 11
276 <211> LENGTH: 4
277 <212> TYPE: PRT
278 <213> ORGANISM: Artificial Sequence
280 <220> FEATURE:
281 <223> OTHER INFORMATION: Description of Artificial Sequence: peptide substrate
283 <400> SEQUENCE: 11
284 Ala Ala Pro Val

VERIFICATION SUMMARY

PATENT APPLICATION: US/10/041,006

DATE: 01/30/2002

TIME: 15:13:14

Input Set : A:\Sequence Listing.txt

Output Set: N:\CRF3\01302002\J041006.raw

L:12 M:270 C: Current Application Number differs, Replaced Current Application Number

L:13 M:271 C: Current Filing Date differs, Replaced Current Filing Date